Ophthalmology

Cumulative Contents of Volume 104

Contents

Volume 104, Number 1, January 1997

Letters to the Editor 1

Canalicular Function after "One-stitch" Repair

Surface Characterization of Intraocular Lenses

Guest Editorial: **More Pieces for the Age-related Macular Degeneration Puzzle** 5
Maureen G. Maguire, PhD

The Five-year Incidence and Progression of Age-related Maculopathy: The Beaver Dam Eye Study 7
Ronald Klein, MD, Barbara E. K. Klein, MD, Susan C. Jensen, MS, Stacy M. Meuer, BS

Surgical Removal of Subfoveal Choroidal Neovascularization in Presumed Ocular Histoplasmosis: Stability of Early Visual Results 22
Nancy M. Holekamp, MD, Matthew A. Thomas, MD, John D. Dickinson, MD, Shailaja Valluri, MD

Retinal Detachment after Branch Retinal Vein Occlusion: Influence of the Type of Break on the Outcome of Vitreous Surgery 27
Yasushi Ikuno, MD, Yasuo Tano, MD, John Michael Lewis, MD, Tsunehiko Ikeda, MD, Yukihiro Sato, MD

Perifoveal Capillary Network in Patients with Acute Central Retinal Vein Occlusion 33
Andreas Remky, MD, Sebastian Wolf, PhD, MD, Hildegard Knabben, MD, Oliver Arend, MD, Martin Reim, MD

Congenital Malignant Teratoid Neoplasm of the Eye and Orbit: A Case Report and Review of the Literature 38
Paul G. Steinkuller, MD, Ramon L. Font, MD

Unilateral Retinoblastoma in an Adult: Report of a Case and Review of the Literature 43
Holger Mietz, MD, William L. Hutton, MD, Ramon L. Font, MD

Atypical, Severe Toxoplasmic Retinochoroiditis in Elderly Patients 48
Mark W. Johnson, MD, Craig M. Greven, MD, Glenn J. Jaffe, MD, Hemali Sudhalkar, MBBS, Andrew K. Vine, MD

Scleritis-associated Uveitis 58
Maite Sainz de la Maza, MD, PhD, C. Stephen Foster, MD, Nada S. Jabbur, MD

Use of Laser Flare Photometry to Assess and Monitor Inflammation in Uveitis 64
Carl P. Herbort, MD, Yan Guex-Crosier, MD, Eva de Ancos, MD, Nancy Pittet, MT
Discussion: *Robert Nussenblatt, MD* 71

Clear Lensectomy and Implantation of a Low-power Posterior Chamber Intraocular Lens for Correction of High Myopia: A Four-year Follow-up 73
Joseph Colin, MD, Anne Robinet, MD
Discussion: *Robert C. Drews, MD* 77

Ocular Ultrasound in Alagille Syndrome: A New Sign 79
Ken K. Nischal, FRCOphth, Melanie Hingorani, FRCOphth, Christopher R. Bentley, FRCOphth, Anthony J. Vivian, FRCS, FRCOphth, Alan C. Bird, MD, FRCS, FRCOphth, Alistair J. Baker, MRCP, Alex P. Mowat, FRCP, Georgina Mieli-Vergani, MD, PhD, FRCP, Wagih A. Aclimandos, FRCS, FRCOphth

Dacryocystorhinostomy with Intraoperative Mitomycin C 86
Shine C. S. Kao, MD, Chiu L. Liao, MD, Jason H. S. Tseng, MD, Muh S. Chen, MD, Ping K. Hou, MD

Lower Eyelid Recession Combined with Ptosis Surgery in Patients with Poor Ocular Motility 92
David E. E. Holck, MD, Jonathan J. Dutton, MD, PhD, Christopher DeBacker, MD

Projectile Metallic Foreign Bodies in the Orbit: A Retrospective Study of Epidemiologic Factors, Management, and Outcomes 96
Macie Finkelstein, MD, Anne Legmann, MD, Peter A. D. Rubin, MD

Comparison of Visual Function in Fellow Eyes after Bilateral Nonarteritic Anterior Ischemic Optic Neuropathy 104
Darrell WuDunn, MD, PhD, Kerry Zimmerman, MS, Alfredo A. Sadun, MD, PhD, Steven E. Feldon, MD

The Association of Strabismus, Amblyopia, and Refractive Errors in Spasmus Nutans 112
Terri L. Young, MD, Jeffrey R. Weis, MD, C. Gail Summers, MD, James E. Egbert, MD

Delay of Corneal Wound Healing in Patients Treated with Colchicine 118
Yair Alster, MD, David Varssano, MD, Anat Loewenstein, MD, Moshe Lazar, MD

Herpes Simplex Virus Keratitis among Patients Who Are Positive or Negative for Human Immunodeficiency Virus: An Epidemiologic Study 120
William G. Hodge, MD, MPH, FRCSC, Todd P. Margolis, MD, PhD

Detection of Antichlamydial Antibodies in Tears: A Diagnostic Aid? 125
Eva-Maria Haller, PhD, Piet Auer-Grumbach, MD, Doris Stuenzner, PhD, Harald H. Kessler, MD, Karen Pierer, MD, Klaus Muellner, MD, Harald Zenz, TD

Brimonidine Tartrate: A One-month Dose Response Study 131
Robert J. Derick, MD, Alan L. Robin, MD, T. R. Walters, Howard S. Barnebey, MD, Neil Choplin, MD, Joel Schuman, MD, Elaine P. Kelley, BS, Kuankuan Chen, MS, Jack F. Stoecker, BS, MBA

A Comparison of Dorzolamide and Timolol in Patients with Pseudoexfoliation and Glaucoma or Ocular Hypertension 137
Anders Heijl, MD, Ellen Strahlman, MD, Thordur Sverrisson, MD, Olaf Brinchman-Hansen, MD, Tuomo Puustjärvi, MD, Robert Tipping, MS

Intermediate-term Outcome of Variable Dose Mitomycin C Filtering Surgery 143
Jason C. Cheung, MD, Martha M. Wright, MD, Shobana Murali, MD, Jonathan E. Pederson, MD

Glaucoma in Phakomatosis Pigmentovascularis 150
Chaiwat Teekhasaenee, MD, Robert Ritch, MD

American Academy of Ophthalmology, Inc., Financial Statements 158
- *Report of Independent Certified Public Accountants*

Contents

Volume 104, Number 2, February 1997

Letters to the Editor 169

Optic Disc Hemorrhages and Glaucoma

Pressure Patching for Corneal Abrasions

Retinopathy and Optic Neuropathy after Transplantation

Vertical Strabismus after Cataract Surgery

Initial Ciliary Ablation with TSCPC

History of Cataract Surgery

Errata

In Memoriam: **Frederick C. Blodi, MD** 175
Robert Folberg, MD

Guest Editorial: **But Is It Really Light Damage?** 179
Martin A. Mainster, MD, PhD, David H. Sliney, PhD, John Marshall, PhD, Keith A. Warren, MD, George T. Timberlake, PhD, Steven L. Trokel, MD

5-Fluorouracil in Combined Trabeculectomy and Clear-cornea Phacoemulsification with Posterior Chamber Intraocular Lens Implantation: A One-year Randomized, Controlled Clinical Trial 181
Stefano A. Gandolfi, MD, Marco Vecchi, MD

Limbus- versus Fornix-based Conjunctival Flaps in Combined Phacoemulsification and Mitomycin C Trabeculectomy Surgery 187
John S. Berestka, MD, Steven V. L. Brown, MD

Effect of Trabeculectomy on Visual Field Performance in Central 30° Field in Progressive Normal-tension Glaucoma 197
Nobuyuki Koseki, MD, Makoto Araie, MD, Shiroaki Shirato, MD, Seiichiro Yamamoto, PhD

Response of Filtered Eyes to Digital Ocular Pressure 202
Howard Kane, MD, OD, Douglas E. Gaasterland, MD, Miroya Monsour, MD

Hypotony Maculopathy after Filtering Surgery with Mitomycin C: Incidence and Treatment 207
Iván J. Sũner, MD, David S. Greenfield, MD, Michael P. Miller, MD, Marcelo Texeira Nicolela, MD, Paul F. Palmberg, MD, PhD

Discussion: *Gregory L. Skuta, MD* 214

The Effects of Phacoemulsification Cataract Surgery via Local Anesthesia on Preoperative and Postoperative Blood Pressure Levels 216
Ryo Suzuki, MD, PhD, Shinji Kuroki, MS, Norio Fujiwara, MD, PhD, Seiji Umemoto, MD, PhD

Correlation of Goblet Cell Density and Mucosal Epithelial Membrane Mucin Expression with Rose Bengal Staining in Patients with Ocular Irritation 223
Stephen C. Pflugfelder, MD, Scheffer C. G. Tseng, MD, PhD, Kenichi Yoshino, MD, Dagoberto Monroy, Carlos Felix, MS, Brenda L. Reis, PhD

Visual Outcomes Prognosticators in Juvenile Rheumatoid Arthritis-associated Uveitis 236
M. Reza Dana, MD, MPH, Jesus Merayo-Lloves, MD, Debra A. Schaumberg, OD, MPH, C. Stephen Foster, MD, FACS

Cyclosporine Monitoring with Levels 6 Hours after the Morning Dose in Patients with Noninfectious Uveitis 245
Guillermo Rocha, MD, FRCSC, Jean Deschênes, MD, FRCSC, Marcelo Cantarovich, MD

Retinopathy and Vision Loss in Insulin-dependent Diabetes in Europe: The EURODIAB IDDM Complications Study 252
Anne Katrin Sjølie, MD, Judith Stephenson, MD, Steve Aldington, FBIPP, Eva Kohner, FRCP, Hans Janka, MD, Lynda Stevens, BSc, John Fuller, FRCP, the EURODIAB IDDM Complications Study Group

The Endophthalmitis Vitrectomy Study: Relationship Between Clinical Presentation and Microbiologic Spectrum 261
Mark W. Johnson, MD, Bernard H. Doft, MD, Sheryl F. Kelsey, PhD, Michael Barza, MD, Louis A. Wilson, MD, Charles C. Barr, MD, Stephen R. Wisniewski, PhD, the Endophthalmitis Vitrectomy Study Group

Lens Clarity after Lens-sparing Vitrectomy in a Pediatric Population 273
Philip J. Ferrone, MD, Camille Harrison, MD, Michael T. Trese, MD

Repair of Retinal Detachments Due to Herpes Varicella-Zoster Virus Retinitis in Patients with Acquired Immune Deficiency Syndrome 279
David V. Weinberg, MD, Alice T. Lyon, MD

Ultrasound Biomicroscopic View of Detachment of the Ciliary Epithelium in Retinal Detachment with Atopic Dermatitis 283
Seiji Yoshida, MD, Mikio Sasoh, MD, Mika Arima, MD, Yukitaka Uji, MD

Characterization of Drusen-associated Glycoconjugates 288
Robert F. Mullins, Lincoln V. Johnson, PhD, Don H. Anderson, PhD, Gregory S. Hageman, PhD

Frequency of Optic Disc or Parapapillary Nerve Fiber Layer Drusen in Retinitis Pigmentosa 295
Sandeep Grover, MD, Gerald A. Fishman, MD, Jeremiah Brown, Jr., MD

Serine-27-Phenylalanine Mutation within the Peripherin/RDS Gene in a Family with Cone Dystrophy 299
Gerald A. Fishman, MD, Edwin M. Stone, MD, PhD, Kenneth R. Alexander, PhD, Leonardo D. Gilbert, COT, Deborah J. Derlacki, BA, Noah S. Butler, BS

Workup for Metastatic Retinoblastoma: A Review of 261 Patients 307
Zeynel A. Karcioglu, MD, Saleh A. Al-Mesfer, MD, Emad Abboud, MD, Monzer H. Jabak, RN, COT, Paul B. Mullaney, FRCSI, FRCOphth

Sports-related Ocular Injuries: A Three-year Follow-up Study 313
João A. Capão Filipe, MD, Henrique Barros, MD, PhD, J. Castro-Correia, MD, PhD

Detection and Localization of Steel Intraocular Foreign Bodies Using Computed Tomography: A Comparison of Helical and Conventional Axial Scanning 319
Joseph G. Chacko, MD, Ramon E. Figueroa, MD, Maribeth H. Johnson, MS, Dennis M. Marcus, MD, Steven E. Brooks, MD

Complications of Hydroxyapatite Orbital Implants: A Review of 100 Consecutive Cases and a Comparison of Dexon Mesh (Polyglycolic Acid) with Scleral Wrapping 324
James H. Oestreicher, MD, Eugene Liu, MD, Mark Berkowitz, MD

Orbital Color Doppler Imaging in Nonischemic Optic Atrophy 330
Kong Y. Goh, MD, Matthew D. Kay, MD, J. Randall Hughes, BS, RDMS

Validation of a Questionnaire for Comparing the Tolerability of Ophthalmic Medications 334
Beth L. Barber, PhD, Ellen R. Strahlman, MD, MHS, Robert Laibovitz, MD, Harry A. Guess, MD, PhD, Scott A. Reines, MD, PhD

Contents

Volume 104, Number 3, March 1997

Letters to the Editor 343
- **Long-term Oral Acyclovir Therapy**
- **IOL Condensation**
- **Standardized Classification of Ocular Trauma**
- **Management of Allergic Conjunctivitis**
- **Erratum**

Centennial President's Address: **Putting Patients First—A 100-Year Tradition** 347
Paul R. Lichter, MD

Reduction in Intraocular Pressure after Excimer Laser Photorefractive Keratectomy: Correlation with Pretreatment Myopia 355
Anupam Chatterjee, FRCSE, Sunil Shah, FRCSE, FRCOphth, David A. Bessant, FRCOphth, Shehzad A. Naroo, MBCO, Stephen J. Doyle, MRCOphth

Quantification of Stromal Thinning, Epithelial Thickness, and Corneal Haze after Photorefractive Keratectomy Using In Vivo Confocal Microscopy 360
Torben Møller-Pedersen, MD, Mitchell Vogel, MD, Hong Fang Li, PhD, W. Matthew Petroll, PhD, H. Dwight Cavanagh, MD, PhD, James V. Jester, PhD

Late Onset Corneal Haze after Photorefractive Keratectomy for Moderate and High Myopia 369
Isaac Lipshitz, MD, Anat Loewenstein, MD, David Varssano, MD, Moshe Lazar, MD
Discussion: *Jonathan H. Talamo, MD* 373

Ultraviolet-B Enhances Corneal Stromal Response to 193-nm Excimer Laser Treatment 375
Zoltán Zsolt Nagy, MD, Paul Hiscott, PhD, Berthold Seitz, MD, Ursula Shlötzer-Schrehardt, PhD, Miklós Simon, Jr, PhD, Ildikó Süveges, MD, Gottfried O. H. Naumann, MD

Clear Corneal Cataract Surgery and the Correction of Myopia, Hyperopia, and Astigmatism 381
Robert M. Kershner, MD, FACS

The Impact of Blurred Vision on Functioning and Well-being 390
Paul P. Lee, MD, JD, Karen Spritzer, MA, Ron D. Hays, PhD

Postprandial Transient Visual Loss: A Symptom of Critical Carotid Stenosis 397
Leonard A. Levin, MD, PhD, V. Vinod Mootha, MD

Current Status in the Treatment of Orbital Myositis 402
Ilse Mombaerts, MD, PhD, Leo Koornneef, MD, PhD

Outcome of Orbital Myositis: Clinical Features Associated with Recurrence 409
Geva E. Mannor, MD, MPH, Geoffrey E. Rose, MD, FRCS, Ivan F. Moseley, MD, FRCR, John E. Wright, MD, FRCS
Discussion: *John S. Kennerdell, MD* 414

Aplasia of the Inferior Rectus Muscle: A Case Report and Review of the Literature 415
Robert H. Taylor, FRCS, FRCOphth, Stephen P. Kraft, MD, FRCSC

Comparison of Postoperative Emesis, Recovery Profile, and Analgesia in Pediatric Strabismus Repair: Rectal Acetaminophen versus Intravenous Fentanyl–Droperidol 419
Gurpreet S. Padda, MD, Oscar A. Cruz, MD, Jeremy L. Krock, DO

Parabulbar Anesthesia for Primary Vitreoretinal Surgery 425
Tarun Sharma, MD, Lingam Gopal, MD, Sunil Parikh, MD, Mahesh P. Shanmugam, MD, Sengamedu S. Badrinath, FRCS(C), Bickol N. Mukesh, MSc, MPhil

Does Warming of Anesthetic Solutions Improve Analgesia and Akinesia in Retrobulbar Anesthesia? 429
Matthias Krause, MD, Josef Weindler, MD, Klaus Wilhelm Ruprecht, MD

Supraciliary Effusions and Ciliary Body Thickening after Scleral Buckling Procedures 433
Charles J. Pavlin, MD, Sanpatna S. Rutnin, MD, Robert Devenyi, MD, Martin Wand, MD, F. Stuart Foster, PhD

Annular Peripheral Choroidal Detachment Simulating Aqueous Misdirection after Glaucoma Surgery 439
Pravin U. Dugel, MD, Dale K. Heuer, MD, Allen B. Thach, MD, George Baerveldt, MD, Paul P. Lee, MD, Mary Ann Lloyd, MD, Don S. Minckler, MD, Ronald L. Green, MD

Electroretinographic and Psychophysical Findings during Early and Late Stages of Human Immunodeficiency Virus Infection and Cytomegalovirus Retinitis 445
Paul A. Latkany, MD, Karen Holopigian, PhD, Monica Lorenzo-Latkany, MD, William Seiple, PhD

Long-term Form Identification Vision after Early, Closed, Lensectomy–Vitrectomy for Stage 5 Retinopathy of Prematurity 454
Helen A. Mintz-Hittner, MD, Ronan E. O'Malley, MD, Frank L. Kretzer, PhD

Rate of Visual Field Loss in Retinitis Pigmentosa 460
Sandeep Grover, MD, Gerald A. Fishman, MD, Robert J. Anderson, PhD, Kenneth R. Alexander, PhD, Deborah J. Derlacki

The Effect of Patient Characteristics on Response to Focal Laser Treatment for Diabetic Macular Edema 466
David J. Browning, MD, PhD, Zhiyi Zhang, PhD, J. Michael Benfield, Adelaide Q. Scott

Association between the Short-term Natural History of Diabetic Macular Edema and the Vitreomacular Relationship in Type II Diabetes Mellitus 473
Taiichi Hikichi, MD, Naoki Fujio, MD, Jun Akiba, MD, Yoshinao Azuma, MD, Masatoshi Takahashi, MD, Akitoshi Yoshida, MD

Accuracy of Clinical Diagnosis of Cutaneous Eyelid Lesions 479
Robert C. Kersten, MD, David Ewing-Chow, MD, Dwight R. Kulwin, MD, Marco Gallon, MD

Late Recurrences and the Necessity for Long-term Follow-up in Corneal and Conjunctival Intraepithelial Neoplasia 485
Geoffrey Tabin, MA, MD, Samantha Levin, MB, BS, Grant Snibson, MB, BS, FRACO, Michael Loughnan, MB, BS, PhD, FRACO, Hugh Taylor, MD, FRACO

The Clinical, Neuroradiographic, and Endocrinologic Profile of Patients with Bilateral Optic Nerve Hypoplasia 493
R. Michael Siatkowski, MD, Juan C. Sanchez, MD, Roberto Andrade, MD, Anita Alvarez, MD

Oculocerebral Dysgenesis in the Linear Nevus Sebaceous Syndrome 497
Michael C. Brodsky, MD, Jay M. Kincannon, MD, Paula Nelson-Adesokan, MD, Harry H. Brown, MD

Modified Corncrib (Inverted T) Procedure with Quickert Suture for Repair of Involutional Entropion 504
Joseph A. Maurriello, Jr, MD, Ahmed Abdelsalam, MD

Role of ABO and Lewis Blood Group Antigens in Donor-Recipient Compatibility of Corneal Transplantation Rejection 508
Raynald Roy, PhD, Béatrice Des Marchais, Richard Bazin, MD, Hélène M. Boisjoly, MD, Ide Dubé, MD, Patricia A. Laughrea, MD

Microbial Findings in Suture Erosion after Penetrating Keratoplasty 513
Charalambos S. Siganos, MD, Abraham Solomon, MD, Joseph Frucht-Pery, MD

Improving the Prediction of Visual Field Progression in Glaucoma Using Spatial Processing 517
David P. Crabb, PhD, Frederick W. Fitzke, PhD, Andrew I. McNaught, FRCOphth, David F. Edgar, BSc, Roger A. Hitchings, FRCS, FRCOphth

Value of Logistic Discriminant Analysis for Interpreting Initial Visual Field Defects 525
Alfonso Antón, MD, José A. Maquet, MD, Agustín Mayo, Jesús Tapia, José C. Pastor, MD

Repeatable Diffuse Visual Field Loss in Open-angle Glaucoma 532
Balwantray C. Chauhan, PhD, Raymond P. LeBlanc, MD, Alyson M. Shaw, BSc, Angela B. Chan, BSc, Terry A. McCormick, BA

Anterior Nongranulomatous Uveitis after Intravitreal HPMPC (Cidofovir) for the Treatment of Cytomegalovirus Retinitis: Analysis and Prevention 539
Eugenio Chavez-de la Paz, MD, J. Fernando Arevalo, MD, Leonard S. Kirsch, MD, David Munguia, BS, Firas M. Rahhal, MD, Erik De Clercq, MD, William R. Freeman, MD

The Effect of Optic Disc Size on Diagnostic Precision with the Heidelberg Retina Tomograph 545
Michele Iester, MD, Frederick S. Mikelberg, MD, Stephen M. Drance, MD

Ocular Manifestations of the Organoid Nevus Syndrome 549
Jerry A. Shields, MD, Carol L. Shields, MD, Ralph C. Eagle, Jr, MD, J. Fernando Arevalo, MD, Patrick DePotter, MD

Recombinant Hirudin Prevents Postoperative Fibrin Formation after Experimental Cataract Surgery 558
Robert A. Mittra, MD, Sundeep Dev, MD, Ma'an A. Nasir, MD, Cynthia A. Toth, MD

Contents

Volume 104, Number 4, April 1997

Letters to the Editor 563
Topical Mitomycin C for Pterygium Surgery
Ocular Malaria
LASIK at 16,000 Feet
Optic Disc Hemorrhages and Glaucoma
Fine-needle Biopsy and Retinoblastoma
Initial Ciliary Ablation with TSCPC

Guest Editorial: **A Long-term Approach to Eliminate Cataract Blindness** 571
Alan L. Robin, MD, G. Natchiar, MD, R. D. Thulasiraj, MBA, G. Venkataswamy, MD

Incident Cataract Surgery: The Beaver Dam Eye Study 573
Barbara E. K. Klein, MD, MPH, Ronald Klein, MD, Scot E. Moss, MA

Prevalence of Cataract in Australia: The Blue Mountains Eye Study 581
Paul Mitchell, MD, FRACO, FRCOphth, Robert G. Cumming, MB, BS, MPH, PhD, Karin Attebo, MB, BS, Jai Panchapakesan, MB, BS

Outcomes of Cataract Extraction with Multifocal Intraocular Lens Implantation: Functional Status and Quality of Life 589
Jonathan C. Javitt, MD, MPH, Fang Wang, PhD, Debra J. Trentacost, Michael Rowe, MS, Nicholas Tarantino, OD

Capsular Management and Refractive Error in Pediatric Intraocular Lenses 600
David A. Plager, MD, Stephen N. Lipsky, MD, Stephen K. Snyder, MD, Derek T. Sprunger, MD, Forrest D. Ellis, MD, Naval Sondhi, MD
Discussion: *Albert W. Biglan, MD* 607

Ocular Explosion after Peribulbar Anesthesia: Case Report and Experimental Study 608
David O. Magnante, MD, John D. Bullock, MD, W. Richard Green, MD

Laser Photocoagulation for Persistent Central Serous Retinopathy: Results of Long-term Follow-up 616
Engin Burumcek, MD, Abdulbaki Mudun, MD, Serra Karacorlu, MD, Mehmet O. Arslan, MD

A Pilot Randomized Controlled Study on the Effect of Laser Photocoagulation of Confluent Soft Macular Drusen 623
Hunter L. Little, MD, Joanne M. Showman, BS, Byron William Brown, PhD

Preferred Retinal Loci Relationship to Macular Scotomas in a Low-vision Population 632
Donald C. Fletcher, MD, Ronald A. Schuchard, PhD

Quantitative In Vivo Retinal Thickness Measurements in Healthy Subjects 639
David Landau, MD, Elad M. Schneidman, PhD, Tzah Jacobovitz, BSc, Yaacov Rozenman, MD

Small-diameter, Round, Eccentric Penetrating Keratoplasties and Corneal Topographic Correlation 643
Kenneth C. Chern, MD, David M. Meisler, MD, Steven E. Wilson, MD, Marian S. Macsai, MD, Ronald H. Krasney, MD

Newly Acquired Herpes Simplex Virus Keratitis after Penetrating Keratoplasty 648
Lies Remeijer, MD, Peter Doornenbal, MD, Annette J. M. Geerards, MD, W. Annemiek Rijneveld, MD, W. Houdijn Beekhuis, MD

Color Doppler Imaging of Ophthalmic Artery Blood Flow Velocity: A Study of Repeatability and Agreement 653
Luciano Quaranta, MD, Alon Harris, PhD, Francesco Donato, MD, Marta Cassamali, MD, Francesco Semeraro, MD, Giuseppe Nascimbeni, MD, Enrico Gandolfo, MD, Carlo A. Quaranta, MD

Increased Vascular Resistance for Venous Outflow in Central Retinal Vein Occlusion 659
Georg Michelson, MD, Joanna Harazny

Relationship between Ocular Pulse Pressures and Retinal Vessel Velocities 664
Georg Michelson, MD, Joanna Harazny

The Effect of Carotid Endarterectomy on Ocular Blood Velocity 672
Kimmo Riiheläinen, MD, Markku Päivänsalo, MD, PhD, Ilkka Suramo, MD, PhD, Leila Laatikainen, MD, PhD

Computed Tomography in Lacrimal Outflow Obstruction 676
James E. Kallman, MD, Jill A. Foster, MD, Allan E. Wulc, MD, David M. Yousem, MD, David W. Kennedy, MD

The Clinical and Pathologic Constellation of Wegener Granulomatosis of the Orbit 683
Stephen R. Perry, MD, Jack Rootman, MD, Valerie A. White, MD

Surgical Management of Strabismus Associated with Chronic Progressive External Ophthalmoplegia 695
David K. Wallace, MD, Derek T. Sprunger, MD, Eugene M. Helveston, MD, Forrest D. Ellis, MD

Risk Factor Assessment and Prognosis of Eye Involvement in Behçet's Disease in Turkey 701
Halûk Demiroğlu, MD, İbrahim Barışta, MD, Semra Dündar, MD

Long-term Follow-up of Patients with Chronic Uveitis Affecting the Posterior Pole Treated with Combination Cyclosporine and Ketoconazole 706
Ali M. Ramadan, MD, Robert B. Nussenblatt, MD, Marc D. de Smet, MD, FRCSC, FRCOphth

Open-angle Glaucoma and Diabetes: The Blue Mountains Eye Study, Australia 712
Paul Mitchell, MD, Wayne Smith, BMed, BMath, MPH, Tien Chey, BSc, Mapp Stat, Paul R. Healey, BMed, Sci, MB, BS

A Randomized Study of Mitomycin Augmentation in Combined Phacoemulsification and Trabeculectomy 719
Dean W. Carlson, MD, Wallace L. M. Alward, MD, James P. Barad, MD, M. Bridget Zimmerman, PhD, Benita L. Carney, COA

Activation of the Coagulation Cascade in Untreated Primary Open-angle Glaucoma 725
Colm O'Brien, MD, FRCS, FRCOphth, Zahida Butt, MB, FRCS, FRCOphth, Christopher Ludlam, PhD, FRCP, FRCPath, Patricia Detkova, MSc
Discussion: *Stephen M. Drance, OC, MD* 729

Contents

Volume 104, Number 5, May 1997

Letters to the Editor 731
Transpupillary Thermotherapy in Choroidal Melanoma
Smith–Magenis Syndrome
Proofreading Is Important
Occludable Angles in a Vietnamese Population
Complications of Small Clear-zone RK

Guest Editorial: **Healthcare Economics and Endophthalmitis** 737
David W. Parke II, MD

An Investigation of the Hospital Charges Related to the Treatment of Endophthalmitis in the Endophthalmitis Vitrectomy Study 739
Stephen R. Wisniewski, PhD, Mark E. Hammer, MD, W. Sanderson Grizzard, MD, Sheryl F. Kelsey, PhD, Donald Everett, MA, Kirk H. Packo, MD, David L. Yarian, MD, Bernard H. Doft, MD, for the EVS Study Group

Delayed-onset Endophthalmitis Associated with Conjunctival Filtering Blebs 746
Tracy A. Kangas, MD, PhD, David S. Greenfield, MD, Harry W. Flynn, Jr, MD, Richard K. Parrish II, MD, Paul Palmberg, MD, PhD

Evidence for Breaches of the Retinal Vasculature in Acquired Immune Deficiency Syndrome Angiopathy: A Fluorescent Microsphere Study 753
Ben J. Glasgow, MD

Indocyanine Green Hyperfluorescence Associated with Serous Retinal Pigment Epithelial Detachment in Age-related Macular Degeneration 761
Caroline R. Baumal, MD, FRCSC, Elias Reichel, MD, Jay S. Duker, MD, Jamie Wong, MD, Carmen A. Puliafito, MD

Sun Exposure and Age-related Macular Degeneration: An Australian Case—Control Study 770
Peteris Darzins, BM, BS, FRACP, FRCPC, Paul Mitchell, MD, FRACO, FRCOphth, Richard F. Heller, MD, FRCP, FRACP, FAFPHM

Uveal Melanoma: Comparison of the Prognostic Value of Fibrovascular Loops, Mean of the Ten Largest Nucleoli, Cell Type, and Tumor Size 777
Ian W. McLean, MD, Kelly S. Keefe, CDR, MC, USNR, Miguel N. Burnier, MD

Intraocular Pressure Elevation after Simple Pars Plana Vitrectomy 781
Uday R. Desai, MD, Amir A. Alhalel, MD, Rhett M. Schiffman, MD, MS, Thomas J. Campen, MD, Gangadhara Sundar, MD, Anthony Muhich, DVM, MPH

Removal of Retained Lens Fragments after Phacoemulsification Reverses Secondary Glaucoma and Restores Visual Acuity 787
Nancy F. Vilar, MD, PhD, Harry W. Flynn, Jr, MD, William E. Smiddy, MD, Timothy G. Murray, MD, Janet L. Davis, MD, Patrick E. Rubsamen, MD

Discussion: *H. Richard McDonald, MD* 791

Decentration and Tilt of Polymethyl Methacrylate, Silicone, and Acrylic Soft Intraocular Lenses 793
Ken Hayashi, MD, Muneaki Harada, MD, Hideyuki Hayashi, MD, Fuminori Nakao, MD, Fumihiko Hayashi, MD

International Applicability of the VF-14: An Index of Visual Function in Patients with Cataracts 799
Jordi Alonso, MD, PhD, Mireia Espallargues, MD, Tavs F. Andersen, MSc, PhD, Sandra D. Cassard, ScD, Elaine Dunn, MA, Peter Bernth-Petersen, MD, PhD, Jens C. Norregaard, MD, PhD, Charlyn Black, MD, ScD, Earl P. Steinberg, MD, MPP, Gerard F. Anderson, PhD

Pointwise Univariate Linear Regression of Perimetric Sensitivity Against Follow-up Time in Glaucoma 808
John M. Wild, PhD, Natalie Hutchings, BSc, Michael K. Hussey, MSc, John G. Flanagan, PhD, Graham E. Trope, FRCS(C)

Ulcerative Keratitis in Bullous Keratopathy 816
Jodi I. Luchs, MD, Elisabeth J. Cohen, MD, Christopher J. Rapuano, MD, Peter R. Laibson, MD

Influence of Ablation Plume Dynamics on the Formation of Central Islands in Excimer Laser Photorefractive Keratectomy 823
Joachim Noack, MSc, Roland Tönnies, BSc, Kristian Hohla, PhD, Reginald Birngruber, PhD, and Alfred Vogel, PhD

Corneal Shape Changes after Scleral Buckling Surgery 831
Hideyuki Hayashi, MD, Ken Hayashi, MD, Fuminori Nakao, MD, Fumihiko Hayashi, MD

Combination Intravenous Ceftazidime and Aminoglycosides in the Treatment of Pseudomonal Scleritis 838
Craig J. Helm, MD, Gary N. Holland, MD, Robert G. Webster, Jr, MD, Robert K. Maloney, MD, Bartly J. Mondino, MD

Intraoperative Mitomycin in Primary Pterygium Excision: A Prospective, Randomized Trial 844
Curtis A. Manning, MD, Price M. Kloess, MD, M. Dolores Diaz, MD, Richard W. Yee, MD

Efficacy of Lodoxamide Eye Drops on Mast Cells and Eosinophils after Allergen Challenge in Allergic Conjunctivitis 849
Stefano Bonini, MD, Mauro Schiavone, MD, Sergio Bonini, MD, Laura Magrini, MD, Pietro Lischetti, MD, Alessandro Lambiase, MD, Massimo G. Bucci, MD

Progressive Visual Loss from Giant Cell Arteritis Despite High-dose Intravenous Methylprednisolone 854
Wayne T. Cornblath, MD, Eric R. Eggenberger, DO

Ocular Ischemic Syndrome 859
Jane B. Mizener, MD, Patricia Podhajsky, BSN, Sohan Singh Hayreh, MD, PhD, DSc, FRCS

Blepharospasm and Hemifacial Spasm: Randomized Trial to Determine the Most Appropriate Location for Botulinum Toxin Injections 865
Jane Price, DOBA, Stephen Farish, BSc MEd, Hugh Taylor, FRACO, Justin O'Day, FRACO, FRACP

High Resolution Magnetic Resonance Imaging of Neurovascular Orbital Anatomy 869
Armin Ettl, MD, Josef Kramer, MS, MD, PhD, Albert Daxer, MS, MD, Leo Koornneef, MD, PhD

Ocular and Orbital Trauma from Water Balloon Slingshots: A Clinical, Epidemiologic, and Experimental Study 878
John D. Bullock, MD, Dilip R. Ballal, PhD, DSc, David A. Johnson, MD, PhD, Richard J. Bullock

Information Statement: Screening Examination of Premature Infants for Retinopathy of Prematurity 888
A Joint Statement of the American Academy of Pediatrics, the American Association for Pediatric Ophthalmology and Strabismus, and the American Academy of Ophthalmology

Contents

Volume 104, Number 6, June 1997

Letters to the Editor 895
Reduction of IOP with Latanoprost
Repair of Rhegmatogenous Retinal Detachments
Postoperative Irradiation
Irreversible Silicone Oil Adhesion
AMD after ECCE with IOL Implant
Antibiotic Supplementation of Intraocular Irrigating Solutions
Reversal of Iatrogenic Punctal and Canalicular Occlusion

Guest Editorial: **Orbital Venous Anomalies: A Long-standing Dilemma** 903
James A. Garrity, MD

Orbital Venous Anomalies 905
John E. Wright, MD, FRCS, FRCOphth, Timothy J. Sullivan, FRACO, FRACS, FRCOphth, Alec Garner, MD, PhD, FRCP, FRCPath, FRCOphth, Allan E. Wulc, MD, Ivan F. Moseley, MD, PhD, FRCP, FRCR

The Prevalence and Implications of Ocular Hypertension and Glaucoma in Thyroid-associated Orbitopathy 914
Kimberly Peele Cockerham, MD, Cheena Pal, MD, Binoy Jani, MD, Andreas Wolter, MD, John S. Kennerdell, MD

Congenital Periodic Alternating Nystagmus: Diagnosis and Management 918
Libe Gradstein, MD, Robert D. Reinecke, MD, Sheryl S. Wizov, COA, Herschel P. Goldstein, PhD
Discussion: *Michael X. Repka, MD* 928

Evidence of Optic Pathway Gliomas after Previously Negative Neuroimaging 930
Guy G. Massry, MD, Charles F. Morgan, MD, Sophia M. Chung, MD

Minocycline-induced Scleral Pigmentation 936
Frederick T. Fraunfelder, MD, Joan A. Randall, BA

Bilateral Iridocyclitis with Retinal Capillaritis in Juveniles 939
Toshihiko Matsuo, MD, PhD, Nobuhiko Matsuo, MD, PhD

The Effect of Excimer Laser Photorefractive Keratectomy on Intraocular Pressure Measurements Using the Goldmann Applanation Tonometer 945
Pierre G. Mardelli, MD, Larry W. Piebenga, MD, Marc M. Whitacre, MD, Kimberly D. Siegmund, PhD
Discussion: *William A. Argus, MD* 949

Analysis of Corneal Topography after Automated Lamellar Keratoplasty 950
Marco C. Helena, MD, Jeffrey B. Robin, MD, Steven E. Wilson, MD

Penetrating Keratoplasty in Congenital Hereditary Endothelial Dystrophy 956
Ali A. Al-Rajhi, MD, FRCS, Michael D. Wagoner, MD

Advancing Wave-like Epitheliopathy: Clinical Features and Treatment 962
Gerard D'Aversa, MD, Jodi L. Luchs, MD, Martin J. Fox, MD, Pearl S. Rosenbaum, MD, Ira J. Udell, MD

Effects of Estrogen Use on Lens Transmittance in Postmenopausal Women 970
Jose M. Benitez del Castillo, MD, PhD, Teresa del Rio, MD, PhD, Julian Garcia-Sanchez, MD, PhD

Comparison of Conjunctival Autografts, Amniotic Membrane Grafts, and Primary Closure for Pterygium Excision 974
Pinnita Prabhasawat, MD, Keith Barton, MD, Gene Burkett, MD, Scheffer C. G. Tseng, MD, PhD

Blebitis, Early Endophthalmitis, and Late Endophthalmitis after Glaucoma-filtering Surgery 986
Thomas A. Ciulla, MD, Allen D. Beck, MD, Trexler M. Topping, MD, Ann Sullivan Baker, MD

Mitomycin C-augmented Trabeculectomy in Refractory Congenital Glaucoma 996
Anil K. Mandal, MD, David S. Walton, MD, Thomas John, MSc, A. Jayagandan, DOpt
Discussion: *Sharon F. Freedman, MD* 1002

Needling Revision of Glaucoma Drainage Device Filtering Blebs 1004
Philip P. Chen, MD, Paul F. Palmberg, MD, PhD

Long-term Effects of Tube-shunt Procedures on Management of Refractory Childhood Glaucoma 1011
Tarek E. Eid, MD, L. Jay Katz, MD, George L. Spaeth, MD, James J. Augsburger, MD

Estimating Progression of Visual Field Loss in Glaucoma 1017
Joanne Katz, ScD, Donna Gilbert, BA, Harry A. Quigley, MD, Alfred Sommer, MD

Association of Retinal Capillary Perfusion with Visual Status during Chronic Glaucoma Therapy 1026
William E. Sponsel, MD, Paul L. Kaufman, MD, Fred G. Blum, Jr, MD

Prevalence and Associations of Epiretinal Membranes: The Blue Mountains Eye Study, Australia 1033
Paul Mitchell, MD, Wayne Smith, BMed, MPH, Tien Chey, BSc, MAppStat, Jie Jin Wang, MB, BS, Andrew Chang, MBBS

Vitreoretinal Surgery Outcomes: Impact on Bilateral Visual Function 1041
Ingrid U. Scott, MD, MPH, William E. Smiddy, MD, Arie Merikansky, MD, William Feuer, MS

Low-dose Intravitreal Cidofovir (HPMPC) Therapy of Cytomegalovirus Retinitis in Patients with Acquired Immune Deficiency Syndrome 1049
Ibrahim Taskintuna, MD, Firas M. Rahhal, MD, J. Fernando Arevalo, MD, David Munguia, BS, Alay S. Banker, MD, Erik De Clercq, MD, William R. Freeman, MD

Contents

Volume 104, Number 7, July 1997

Letters to the Editor 1059

Abscessed Hydroxyapatite Orbital Implants

Office Repair of Retinal Detachment

Aspergillus Endophthalmitis in Orthotopic Liver Transplant

To Err Is Human

Guest Editorial: **Patient Self-management Skills Influence the Course of Glaucoma** 1065
George L. Spaeth, MD

The Intrastromal Corneal Ring Segments: Phase II Results for the Correction of Myopia 1067
David J. Schanzlin, MD, Penny A. Asbell, MD, Terry E. Burris, MD, Daniel S. Durrie, MD

Ocular Integrity after Refractive Procedures 1079
Lester W. Peacock, MD, Stephen G. Slade, MD, Jaime Martiz, MD, Alice Chuang, PhD, Richard W. Yee, MD

Postoperative Cellular Reaction on Various Intraocular Lens Materials 1084
Giuseppe Ravalico, MD, Fabio Baccara, MD, Andrea Lovisato, MD, Daniele Tognetto, MD

Cataract after Vitrectomy in Young Patients 1092
Barbara A. Blodi, MD, Scott A. Paluska, MD

Pediatric Cataract Management with Variations in Surgical Technique and Aphakic Optical Correction 1096
John R. Ainsworth, FRCS, FRCOphth, Sandi Cohen, Alex V. Levin, MD, FRCSC, David S. Rootman, MD, FRCSC

Resolution of Astigmatism after Surgical Resection of Capillary Hemangiomas in Infants 1102
David A. Plager, MD, Steven K. Snyder, MD

Post-traumatic Corneal Mucormycosis Caused by *Absidia corymbifera* 1107
David H. Marshall, MD, Seymour Brownstein, MD, W. Bruce Jackson, MD, George Mintsioulis, MD, Steven M. Gilberg, MD, Basil F. Al-Zeerah, MD

Neovascular Glaucoma Developing after Uncomplicated Cataract Surgery for Heavily Irradiated Eyes 1112
Sek Keung Kwok, FRCS(Edin), Shing Fai Leung, FRCR(UK), Patrick Chi Ping Ho, FACS, Sonal Gandhi, FRCS(Edin), Ivan Ngan Chen, FRCS(Edin), John Joseph Michon, MD, Dennis Shun Chiu Lam, FRCS(Edin), Jimmy Shiu Ming Lai, FRCS(Edin)

Ultrasound Biomicroscopy in Infantile Glaucoma 1116
Augusto Azuara-Blanco, MD, PhD, George L. Spaeth, MD, Silvana V. Araujo, MD, James J. Augsburger, MD, L. Jay Katz, MD, Joseph H. Calhoun, MD, Richard P. Wilson, MD

Long-term Follow-up of Initially Successful Trabeculectomy 1120
Teresa C. Chen, MD, Jacob T. Wilensky, MD, Marlos A. G. Viana, PhD

Analysis of Reliability Indices from Humphrey Visual Field Tests in an Urban Glaucoma Population 1126
Catherine M. Birt, MA, MD, FRCSC, Dong H. Shin, MD, PhD, Vara Samudrala, MD, Brett A. Hughes, MD, Chaesik Kim, BSEE, Damho Lee, MD

Effect of Surgery on Visual Field Progression in Normal-tension Glaucoma 1131
Anuja Bhandari, FRCOphth, David P. Crabb, PhD, Darmalingum Poinoosawmy, BS, Frederick W. Fitzke, PhD, Roger A. Hitchings, FRCS, FRCOphth, Baha N. Noureddin, FRCOphth

Evaluation of Coexisting Optic Nerve Head Drusen and Glaucoma with Optical Coherence Tomography 1138
Shiyoung Roh, MD, Robert J. Noecker, MD, Joel S. Schuman, MD

Application of Rapid Scanning Retinal Thickness Analysis in Retinal Diseases 1145
Sanjay Asrani, MD, Ran Zeimer, PhD, Morton F. Goldberg, MD, Shazhou Zou, MS

Choroidal Metastases from Renal Cell Carcinoma 1152
Robert Haimovici, MD, Evangelos S. Gragoudas, MD, Zdenek Gregor, FRCS, Richard D. Pesavento, MD, William F. Mieler, MD, Jay S. Duker, MD

The Management of Giant Retinal Tears Using Perfluoroperhydrophenanthrene: A Multicenter Case Series 1159
Peter J. Kertes, MD, Hussein Wafapoor, MD, Gholam A. Peyman, MD, Nassim Calixto, Jr, MD, Hilary Thompson, PhD, Vitreon Collaborative Study Group

Post-traumatic Proliferative Vitreoretinopathy: The Epidemiologic Profile, Onset, Risk Factors, and Visual Outcome 1166
Jose A. Cardillo, MD, J. Timothy Stout, MD, PhD, Laurie LaBree, MS, Stanley P. Azen, PhD, Luis Omphroy, MD, Jing Z. Cui, MD, Hideya Kimura, MD, David R. Hinton, MD, Stephen J. Ryan, MD

Application of Polymerase Chain Reaction Assay in the Diagnosis of Orbital Granuloma Complicating Atypical Oculoglandular Cat Scratch Disease 1174
Joanne C. Dondey, MBBS, Timothy J. Sullivan, FRACO, FRACS, Jennifer M. B. Robson, FRACP, FRCPA, Joseph Gatto, MBBS

Laser Microsurgery for Superficial T1–T2 Basal Cell Carcinoma of the Eyelid Margins 1179
Gaetano Bandieramonte, MD, Paolo Lepera, MD, Daniele Moglia, MD, Aldo Bono, MD, Claudio De Vecchi, MD, Franco Milani, MD

Granulomatous Blepharitis as a Sign of Melkersson-Rosenthal Syndrome 1185
R. Patrick Yeatts, MD, Wain L. White, MD
Discussion *George B. Bartley, MD* 1189

Transcanalicular Neodymium:YAG Laser for Revision of Dacryocystorhinostomy 1191
Bhupendra C. K. Patel, MD, FRCS, FRCOphth, Barratt Phillips, MD, William M. McLeish, MD, Patrick Flaharty, MD, Richard L. Anderson, MD, FACS

Multidisciplinary Management of Refractory Orbital Rhabdomyosarcoma 1198
Geva E. Mannor, MD, Geoffrey E. Rose, MD, FRCS, P. N. Plowman, MD, FRCR, Judith Kingston, MD, FRCP, John E. Wright, MD, FRCS, Steven J. Vardy, FRCS

Contents

Volume 104, Number 8, August 1997

Letters to the Editor 1207

Unilateral Retinoblastoma in Adults

Noninvasive Closure of Persistent Cyclodialysis Cleft

Scleritis-associated Uveitis

Primary Glaucoma Triple Procedure

Complications of Small Clear-zone Radial Keratotomy

Erratum

Guest Editorial: **Pointers on Laser Pointers** 1213
Martin A. Mainster, MD, PhD, George T. Timberlake, PhD, Keith A. Warren, MD, David H. Sliney, PhD

Needling versus Medical Treatment in Encapsulated Blebs: A Randomized, Prospective Study 1215
Vital P. Costa, MD, Marcelo M. Correa, MD, Newton Kara-Jose, MD

Discussion: *George L. Spaeth, MD* 1220

The Effect of Phacoemulsification on Aqueous Outflow Facility 1221
Marcus A. Meyer, MD, Michael L. Savitt, MD, Evon Kopitas, PA

Comparison of Methods to Detect Visual Field Progression in Glaucoma 1228
Kouros Nouri-Mahdavi, MD, Luca Brigatti, MD, Marc Weitzman, MD, Joseph Caprioli, MD

Small Incision Trabeculectomy Avoiding Tenon's Capsule: A New Procedure for Glaucoma Surgery 1237
S. Fabian Lerner, MD

Photodynamic Therapy and Digital Angiography of Experimental Iris Neovascularization Using Liposomal Benzoporphyrin Derivative 1242
Deeba Husain, MD, Joan W. Miller, MD, Alice G. Kenney, CRA, Norman Michaud, MS, Thomas J. Flotte, MD, Evangelos S. Gragoudas, MD

Rubeosis Iridis in Retinoblastoma: Histologic Findings and the Possible Role of Vascular Endothelial Growth Factor in Its Induction 1251
Jacob Pe'er, MD, Meir Neufeld, MD, Mario Baras, PhD, Hadassah Gnessin, Ahuva Itin, Eli Keshet, PhD

Ciliary Body and Choroidal Detachment after Laser Photocoagulation for Diabetic Retinopathy: A High-frequency Ultrasound Study 1259
Takashi Yuki, MD, Yasutaka Kimura, MD, Shinichi Nanbu, MD, Shoji Kishi, MD, Koichi Shimizu, MD

Survey of 520 Eyes with Uveal Metastases 1265
Carol L. Shields, MD, Jerry A. Shields, MD, Nicole E. Gross, MD, Geoffrey P. Schwartz, MD, Sara E. Lally, BA

Incision Sizes for Foldable Intraocular Lenses 1277
Thomas Kohnen, MD, Richard J. Lambert, PhD, DVM, Douglas D. Koch, MD

Evaluation of Visual Function Following Neodymium:YAG Laser Posterior Capsulotomy 1287
Benjamin V. Magno, MD, Manuel B. Datiles, MD, Maria Susan M. Lasa, MD, Moises Romeo Q. Fajardo, MD, Rafael C. Caruso, MD, Muriel I. Kaiser-Kupfer, MD

Rapid Diagnosis of Adenoviral Conjunctivitis on Conjunctival Swabs by 10-Minute Immunochromatography 1294
Eiichi Uchio, MD, Koki Aoki, MD, Waka Saitoh, MD, Norihiko Itoh, DVM, Shigeaki Ohno, MD

Systemic Cyclosporine A in Severe Atopic Keratoconjunctivitis 1300
Thanh Hoang-Xuan, MD, Olivier Prisant, MD, Daniele Hannouche, MD, Hervé Robin, MD

Treatment of *Nocardia asteroides* Keratitis with Polyhexamethylene Biguanide 1306
Julianne C. Lin, MD, Thomas P. Ward, MD, David A. Belyea, MD, Peter McEvoy, MD, Kenyon K. Kramer, MD

Infectious Posterior Scleritis Caused by *Pseudallescheria boydii*: Clinicopathologic Findings 1312
Michael J. Taravella, MD, David W. Johnson, MD, John G. Petty, MD, Robert B. Keyser, MD, C. Stephen Foster, MD, Brita E. Lundberg, MD

Astigmatism Induced by Spherical Photorefractive Keratectomy Corrections 1317
Sunil Shah, FRCSE, FRCOphth, Anupam Chatterjee, FRCSE, Stephen J. Doyle, MRCOphth, David A. Bessant, FRCOphth

Results of Excimer Laser Retreatment of Residual Myopia after Previous Photorefractive Keratectomy 1321
Anupam Chatterjee, FRCSE, Sunil Shah, FRCSE, FRCOphth, David A. Bessant, FRCOphth, Stephen J. Doyle, MRCOphth

Dilute Topical Proparacaine for Pain Relief after Photorefractive Keratectomy 1327
Lee Shahinian, Jr, MD, Shalini Jain, BA, Rama D. Jager, MBA, David T. C. Lin, MD, Steven S. Sanislo, MD, Johanna F. Miller, BA

Corneal Topography of Excimer Laser Photorefractive Keratectomy Using a 6-mm Beam Diameter 1333
Peter S. Hersh, MD, Shetal I. Shah, AB, Summit PRK Topography Study Group

Lensification of the Posterior Corneal Surface: An Unusual Proliferation of Lens Epithelial Cells 1343
Thomas Kohnen, MD, Douglas D. Koch, MD, Ramon L. Font, MD

Etiology and Prognosis of Acute, Late-onset Esotropia 1348
Anne Legmann Simon, MD, Mark Borchert, MD
Discussion: *Creig S. Hoyt, MD* 1352

A Study of Topical Nonsteroidal Anti-inflammatory Drops and No Pressure Patching in the Treatment of Corneal Abrasions 1353
Peter K. Kaiser, MD, Roberto Pineda II, MD, and the Corneal Abrasion Patching Study Group

Ophthalmic Procedure Assessment

Corneal Endothelial Photography: Three-year Revision 1360
American Academy of Ophthalmology

Contents

Volume 104, Number 9, September 1997

Letters to the Editor 1367
Post-trabeculectomy Hypotony
Predicting Visual Acuity in Eyes with Fundus Colobomas: Optic Nerve Involvement, Size, or the Fovea?
Complications of Hydroxyapatite Orbital Implants
Screening Tests in a Clinic Population
Correction

Guest Editorial: **Evolution of Glaucoma Care—From Lore to Data** 1371
E. Michael Van Buskirk, MD

Corneal Endothelial Toxicity of Topical Anesthesia 1373
Anisha J. Judge, MD, Katayoun Najafi, MD, David A. Lee, MD, Kevin M. Miller, MD

A Prospective Evaluation of a Diffractive versus a Refractive Designed Multifocal Intraocular Lens 1380
Tony Walkow, MD, Anja Liekfeld, MD, Norbert Anders, MD, Duy T. Pham, MD, Christian Hartmann, MD, Josef Wollensak, MD

Posterior Capsule Opacification after Cataract Surgery in Patients with Uveitis 1387
M. Reza Dana, MD, MPH, Klio Chatzistefanou, MD, Debra A. Schaumberg, OD, MPH, C. Stephen Foster, MD
Discussion: *Ronald E. Smith, MD, Rey Pangilinan, MD* 1393

Relation between Signs and Symptoms of Dry Eye in the Elderly: A Population-based Perspective 1395
Oliver D. Schein, MD, MPH, James M. Tielsch, PhD, Beatriz Muñoz, MS, Karen Bandeen–Roche, PhD, Sheila West, PhD

Efficacy and Safety of 0.3% Carbomer Gel Compared to Placebo in Patients with Moderate-to-Severe Dry Eye Syndrome 1402
Laurence J. Sullivan, MBBS, FRACO, Fiona McCurrach, MBBS, FRACO, Sharon Lee, BSc, Hugh R. Taylor, MD, FRACO, Maurizio Rolando, MD, Christianne Marechal–Courtois, MD, Catherine Creuzot–Garcher, MD, David L. Easty, MB, ChB, FRCS, FRCOphth, Constantios Karabatsas, MD, MRCOphth, EBOD, M. Bingh Hoh, FRCOphth, Cristoph Faschinger, MD, Laurent Laroche, MD

Unilateral Keratoconus: Incidence and Quantitative Topographic Analysis 1409
Daniel R. Holland, MD, Naoyuki Maeda, MD, Sadeer B. Hannush, MD, Lorena H. Riveroll, MD, Mary T. Green, MD, PhD, Stephen D. Klyce, PhD, Steven E. Wilson, MD

Epidermolysis Bullosa Acquisita Diagnosed by Direct Immunoelectron Microscopy of the Conjunctiva 1414
Thanh Hoang–Xuan, MD, Hervé Robin, MD, Michel Heller, PhD, Frédéric Caux, MD, Catherine Prost, MD, PhD

Herpes Zoster Sine Herpete: A Potential Cause of Iridoplegic Granulomatous Iridocyclitis 1421
Ivan R. Schwab, MD

Vitrectomy for Retained Lens Fragments after Phacoemulsification 1426
Raymond R. Margherio, MD, Alan R. Margherio, MD, Scott D. Pendergast, MD, George A. Williams, MD, Bruce R. Garretson, MD, Leroy E. Strong, MD, Michael T. Trese, MD, Morton S. Cox, MD, Tarek S. Hassan, MD

Diode Laser (810 nm) versus Argon Green (514 nm) Modified Grid Photocoagulation for Diffuse Diabetic Macular Edema 1433
Levent Akduman, MD, R. Joseph Olk, MD

Vision-threatening Complications of Surgery for Full-thickness Macular Holes 1442
Alay S. Banker, MD, William R. Freeman, MD, Jung W. Kim, MD, David Munguia, Stanley P. Azen, PhD, the Vitrectomy for Macular Hole Study Group
Discussion: *Mark S. Blumenkranz, MD* 1452

Epibulbar Granular Cell Tumor: Report of a Case and Review of the Literature 1454
Norman C. Charles, MD, Donald M. Fox, MD, Sidney S. Glasberg, MD, Janusz Sawicki, MD

Perineural Spread of Cutaneous Squamous Cell Carcinoma via the Orbit: Clinical Features and Outcome in 21 Cases 1457
Alan A. McNab, FRACO, Ian C. Francis, FRACO, Ross Benger, FRACO, John L. Crompton, FRACO

Orbital Venous Anomalies Demonstrated by Spiral Computed Tomography 1463
Peter A. D. Rubin, MD, Heidi D. Remulla, MD

Infantile Myofibromatosis of Orbital Bone: A Case Report with Computed Tomography, Magnetic Resonance Imaging, and Histologic Findings 1471
Mark T. Duffy, MD, PhD, Michael Harris, MD, Albert Hornblass, MD

Brachytherapy in Orbital Tumors 1475
Jan Willem M. Tyl, MD, Leo E. C. M. Blank, MD, Leo Koornneef, MD, PhD

High Leg Incision Fascia Lata Harvesting 1480
Thomas C. Naugle, Jr, MD, Constance L. Fry, MD, Richard E. Sabatier, MD, L. Franklyn Elliott, MD

Biometry and Primary Angle-closure Glaucoma among Chinese, White, and Black Populations 1489
Nathan G. Congdon, MD, MPH, Qi Youlin, MD, MPH, Harry Quigley, MD, Por T. Hung, MD, T. H. Wang, MD, T. C. Ho, MD, James M. Tielsch, PhD

High-pass Resolution Perimetry and a Humphrey Field Analyzer as Indicators of Glaucomatous Optic Disc Abnormalities: A Comparative Study 1496
Yoshiki Kono, MD, Qi-Min Chi, MD, Goji Tomita, MD, Tetsuya Yamamoto, MD, Yoshiaki Kitazawa, MD, PhD

Additive Ocular Hypotensive Effect of Latanoprost and Acetazolamide: A Short-term Study in Patients with Elevated Intraocular Pressure 1503
Alexander H. Rulo, MD, Erik L. Greve, MD, PhD, Philip F. J. Hoyng, MD, PhD

"Cyclodiode": Trans-scleral Diode Laser Cyclophotocoagulation in the Treatment of Advanced Refractory Glaucoma 1508
Philip A. Bloom, FRCOphth, James C. Tsai, MD, Kamal Sharma, FRCOphth, Michael H. Miller, FRCOphth, Noel S.C. Rice, FRCOphth, Roger A. Hitchings, FRCOphth, Peng T. Khaw, FRCOphth
Discussion: *Douglas E. Gaasterland, MD* 1519

Ophthalmic Procedure Assessment

Punctal Occlusion for the Dry Eye: Three-year Revision 1521
American Academy of Ophthalmology

Contents

Volume 104, Number 10, October 1997

Letters to the Editor 1525

Economic Risks of Refractive Surgical Procedures

Reduction of IOP after PRK

5-Fluorouracil in Primary Combined Glaucoma Surgery

Sports-related Ocular Injuries

Does Warming of Anesthetic Solutions Improve Analgesia and Akinesia in Retrobulbar Anesthesia?

Reproducibility of Nerve Fiber Layer Thickness Measurements

Immunosuppression and HIV in Young Patients with Ocular Surface Dysplasia

Frequency of Optic Disc Drusen and Size of the Optic Disc

Erratum

Guest Editorial: **How Should We Evaluate a Cohort Study? Study Design** 1533
Ronald Klein, MD, MPH, Barbara E. K. Klein, MD, MPH

Results of Phase III Excimer Laser Photorefractive Keratectomy for Myopia 1535
Peter S. Hersh, MD, R. Doyle Stulting, MD, PhD, Roger F. Steinert, MD, George O. Waring III, MD, Keith P. Thompson, MD, Maureen O'Connell, BS, Kimberley Doney, MBA, Oliver D. Schein, MD, MPH, The Summit PRK Study Group

Excimer Laser Photorefractive Keratectomy for High Myopia: Four-year Experience with a Multiple Zone Technique 1554
Matteo Piovella, MD, Fabrizio I. Camesasca, MD, Cesare Fattori, MD

A Prospective Evaluation of Alcohol-assisted versus Mechanical Epithelial Removal Before Photorefractive Keratectomy 1566
Juan-Carlos Abad, MD, Bonnie An, MD, William J. Power, FRCS, FRCOphth, C. Stephen Foster, MD, Dimitri T. Azar, MD, Jonathan H. Talamo, MD

Discussion: *James J. Salz, MD* 1574

The Effects of Donor Age on the Outcome of Penetrating Keratoplasty in Adults 1576
David A. Palay, MD, Tracy A. Kangas, MD, R. Doyle Stulting, MD, PhD, Karen Winchester, MD, David Litoff, MD, Jay H. Krachmer, MD

Corneal Transplantation in Children with Peters Anomaly and Mesenchymal Dysgeneses 1580
M. Reza Dana, MD, MPH, Debra A. Schaumberg, OD, MPH, Andrew L. Moyes, MD, Jose A. P. Gomes, MD, for the Multicenter Pediatric Keratoplasty Study

Discussion: *Walter J. Stark, MD* 1586

Outcome of Acanthamoeba Keratitis Treated with Polyhexamethyl Biguanide and Propamidine 1587
I. Graham M. Duguid, MD, FRCS, John K. G. Dart, DM, FRCS, Nigel Morlet, FRACS, FRACO, Bruce D. S. Allan, MD, FRCS, Melville Matheson, BSc, Linda Ficker, BSc, FRCS, Stephen Tuft, MD, FRCOphth

Implications of Early Systemic Therapy on the Incidence of Endogenous Fungal Endophthalmitis 1593
Warren J. Scherer, MD, PhD, Kathy Lee, MD, PhD

Orbital Cysticercosis 1599
G. Chandra Sekhar, MD, Bradley N. Lemke, MD, FACS

Syphilis Exposure in Patients with Uveitis 1605
Gaetano R. Barile, MD, Thomas E. Flynn, MD

Orbital Compression Syndrome in Sickle Cell Disease 1610
Edward L. Curran, MD, James C. Fleming, MD, Kevin Rice, MD, Winfred C. Wang, MD

Complications of Motility Peg Placement for the Hydroxyapatite Orbital Implant 1616
Chaim Edelstein, MD, FRCSC, Carol L. Shields, MD, Patrick De Potter, MD, Jerry A. Shields, MD

Adenoid Cystic Carcinomas of the Lacrimal Gland in Childhood and Adolescence 1622
Miguel V. Tellado, Lt Col, MC, USAF, Ian W. McLean, MD, Charles S. Specht, MD, J. Varga, Cmdr, MC, USN

Porocarcinoma of the Eyelid 1626
James R. Boynton, MD, Walter Markowitch, Jr, MD

Subarachnoid Fluid of the Optic Nerve in Normal Adults 1629
Byron L. Lam, MD, Charles M. Glasier, MD, William J. Feuer, MS

Radiation Optic Neuropathy after Stereotactic Radiosurgery 1634
Christopher A. Girkin, MD, Christopher H. Comey, MD, L. Dade Lunsford, MD, Michael L. Goodman, MD, Lanning B. Kline, MD

Eye Injuries Caused by Bungee Cords 1644
Michael J. Cooney, MD, Dante J. Pieramici, MD

Long-term Visual Outcomes in Patients with Successful Macular Hole Surgery 1648
Robert E. Leonard, II, MD, William E. Smiddy, MD, Harry W. Flynn, Jr, MD, William Feuer, MS

Central Serous Chorioretinopathy Associated with Inhaled or Intranasal Corticosteroids 1653
Robert Haimovici, MD, Evangelos S. Gragoudas, MD, Jay S. Duker, MD, Raymond N. Sjaarda, MD, Dean Eliott, MD

Insulin-like Growth Factor-1 Retinal Microangiopathy in the Pig Eye 1661
Ronald P. Danis, MD, David P. Bingaman, DVM, PhD

Fluorescent Dots in Fluorescein Angiography and Fluorescein Leukocyte Angiography Using a Scanning Laser Ophthalmoscope in Humans 1670
Yunsik Yang, MD, Sangduck Kim, MD, Jaeduck Kim, MD

Visual Function Abnormalities and Prognosis in Eyes with Age-related Geographic Atrophy of the Macula and Good Visual Acuity 1677
Janet S. Sunness, MD, Gary S. Rubin, PhD, Carol A. Applegate, COT, Neil M. Bressler, MD, Marta J. Marsh, MD, Barbara S. Hawkins, PhD, David Haselwood, BA

Tube-shunt Surgery versus Neodymium:YAG Cyclophotocoagulation in the Management of Neovascular Glaucoma 1692
Tarek E. Eid, MD, L. Jay Katz, MD, George L. Spaeth, MD, James J. Augsburger, MD

In Vitro Flow Testing of Glaucoma Drainage Devices 1701
Jeffrey M. Porter, BS, Claudine H. Krawczyk, MS, Ronald F. Carey, PhD

Comparative Study of Silicone versus Acrylic Foldable Lens Implantation in Primary Glaucoma Triple Procedure 1708
Lance C. Lemon, MD, Dong H. Shin, MD, PhD, Man S. Song, MD, Jin H. Lee, MD, Rick E. Bendel, MD, Mark S. Juzych, MD, Bret A. Hughes, MD

Is There an Association between Migraine Headache and Open-angle Glaucoma? Findings from the Blue Mountains Eye Study 1714
Jie Jin Wang, MMed (Clin Epi), Paul Mitchell, MD, FRACO, FRCOphth, Wayne Smith, BMed, MPH, FAFPHM

A Comparative Study of Two Dose Regimens of Latanoprost in Patients with Elevated Intraocular Pressure 1720
Moshe Lusky, MD, Uri Ticho, MD, Joseph Glovinsky, MD, Dov Weinberger, MD, Ronit Nesher, MD, Yuval Yassur, MD, Shlomo Melamed, MD

Contents

Volume 104, Number 11, November 1997

Letters to the Editor 1725

Prism Adaptation Study

Refractive Stability of LASIK

Ocular Explosion after Peribulbar Anesthesia

Unilateral Retinoblastoma in an Adult

Guest Editorial: **Is *Helicobacter pylori* of Interest to Ophthalmologists?** 1729
Joel S. Mindel, MD, PhD, E. William Rosenberg, MD

Early Treatment of Posterior Retinopathy of Prematurity: A Controlled Trial 1731
James F. Vander, MD, James Handa, MD, J. Arch McNamara, MD, Michael Trese, MD, Rand Spencer, MD, Michael X. Repka, MD, Patrick Rubsamen, MD, Helen Li, MD, Lawrence S. Morse, MD, PhD, William S. Tasman, MD
Discussion: *John T. Flynn, MD* 1735

Results of Bilateral Cataract Extraction with Posterior Chamber Intraocular Lens Implantation in Children 1737
Howard V. Gimbel, MD, FRCS(C), Surendra Basti, DNB, Maria Ferensowicz, MA, Brian M. DeBroff, MD

Theoretic Refractive Changes after Lens Implantation in Childhood 1744
Scott K. McClatchey, MD, Marshall M. Parks, MD

Myopic Shift after Intraocular Lens Implantation during Childhood 1752
Amy K. Hutchinson, MD, Carolyn Drews-Botsch, PhD, Scott R. Lambert, MD

Comparison of Visual Acuity Measured with Allen Figures and Snellen Letters Using the B-VAT II Monitor 1758
Gregg T. Lueder, MD, David Garibaldi, CO

Botulinum Toxin Management of Childhood Intermittent Exotropia 1762
Robert F. Spencer, PhD, Mary G. Tucker, MD, Rosan Y. Choi, MD, Keith W. McNeer, MD

Epidemic Bacillus Endophthalmitis after Cataract Surgery I: Acute Presentation and Outcome 1768
Mili Roy, MD, FRCSC, John C. Chen, MD, FRCSC, Mark Miller, MD, FRCPC, Don Boyaner, MD, FRCSC, Oscar Kasner, MD, FRCSC, Eugene Edelstein, MD, FRCSC
Discussion: *Travis A. Meredith, MD* 1772

Choroidal Hemangiomas: Visual and Anatomic Results of Treatment by Photocoagulation or Radiation Therapy 1773
Steven A. Madreperla, MD, PhD, John L. Hungerford, FRCS, FRCOphth, P. Nicholas Plowman, MD, FRCP, FRCR, Hania C. Laganowski, FRCS, FRCOphth, Peter T. S. Gregory, FRCS, FRCOphth
Discussion: *Paul T. Finger, MD, FACS* 1779

Efficacy of Proton Therapy in Circumscribed Choroidal Hemangiomas Associated with Serous Retinal Detachment 1780
Daniele Hannouche, MD, Eric Frau, MD, Laurence Desjardins, MD, Nathalie Cassoux, MD, Jean-Louis Habrand, MD, Hervé Offret, MD
Discussion: *Jerry A. Shields, MD* 1784

Metastatic Risk for Distinct Patterns of Postirradiation Local Recurrence of Posterior Uveal Melanoma 1785
J. William Harbour, MD, Devron H. Char, MD, Stew Kroll, MS, Jeanne M. Quivey, MD, Joseph Castro, MD
Discussion: *Evangelos S. Gragoudas, MD, Kathleen M. Egan, ScD* 1792

Microwave Thermoradiotherapy for Uveal Melanoma: Results of a 10-year Study 1794
Paul T. Finger, MD
Discussion: *William F. Mieler, MD* 1803

The Relation of Cardiovascular Disease and Its Risk Factors to the 5-year Incidence of Age-related Maculopathy: The Beaver Dam Eye Study 1804
Ronald Klein, MD, Barbara E. K. Klein, MD, Susan C. Jensen, MS

Indocyanine Green Angiography of Multifocal Choroiditis 1813
Jason S. Slakter, MD, Alfonso Giovannini, MD, Laurence A. Yannuzzi, MD, Baldo Scassellati-Sforzolini, MD, David R. Guyer, MD, John A. Sorenson, MD, Richard F. Spaide, MD, Dennis Orlock, CRA

Peripheral Multifocal Chorioretinitis: A Distinct Clinical Entity? 1820
Charlotte W. T. A. Lardenoye, MD, Allegonda Van der Lelij, MD, Wolter S. de Loos, MD, W. Frits Treffers, MD, Aniki Rothova, MD

Adverse Events and Autopsy Findings after Intravitreous Cidofovir (HPMPC) Therapy in Patients with Acquired Immune Deficiency Syndrome (AIDS) 1827
Ibrahim Taskintuna, MD, Firas M. Rahhal, MD, Narsing A. Rao, MD, Clayton A. Wiley, MD, PhD, Arthur J. Mueller, MD, PhD, Alay S. Banker, MD, Erik De Clercq, MD, J. Fernando Arevalo, MD, William R. Freeman, MD
Discussion: *Herbert L. Cantrill, MD* 1836

Grid Laser Photocoagulation for Macular Edema in Bilateral Juxtafoveal Telangiectasis 1838
Donald W. Park, MD, Howard Schatz, MD, H. Richard McDonald, MD, Robert N. Johnson, MD

Tissue Plasminogen Activator–assisted Surgical Excision of Subfoveal Choroidal Neovascularization in Age-related Macular Degeneration: A Randomized, Double-masked Trial 1847
Hilel Lewis, MD, Sharon VanderBrug Medendorp, MPH
Discussion: *Thomas M. Aaberg, Sr, MD* 1852

***Pneumocystis carinii* Infection of the Conjunctiva in a Patient with Acquired Immune Deficiency Syndrome** 1853
Gian Marco Ruggli, MD, Rainer Weber, MD, Elmar Peter Messmer, MD, Ramon L. Font, MD, Carl Moll, MD, Wolfgang Bernauer, MD

Periocular Necrotizing Fasciitis: A Review of Five Cases 1857
David H. Marshall, MD, David R. Jordan, MD, Steven M. Gilberg, MD, John Harvey, MD, Bryan P. Arthurs, MD, Jeffrey A. Nerad, MD

Ocular Rosacea: Patient Characteristics and Follow-up 1863
Esen Karamursel Akpek, MD, Amyna Merchant, MD, Vakur Pinar, MD, C. Stephen Foster, MD

Inflammatory Cytokines in the Tears of Patients with Ocular Rosacea 1868
Keith Barton, MD, MRCP, FRCS, Dagoberto C. Monroy, Alexandra Nava, MD, Stephen C. Pflugfelder, MD

Clinical and Radiologic Lacrimal Testing in Patients with Epiphora 1875
James P. Guzek, MD, Andrea S. Ching, BS, Thu-Anh Hoang, MD, Peter Dure-Smith, MD, Josep G. Llaurado, MD, Daniel C. Yau, MD, Christopher B. Stephenson, MD, Charles M. Stephenson, MD, Dennis A. Elam, MS

Clinically Suspected Primary Acquired Nasolacrimal Duct Obstruction: Clinicopathologic Review of 150 Patients 1882
Nancy Tucker, MD, David Chow, MD, Frank Stockl, MD, François Codère, MD, Miguel Burnier, MD

Long-term Contact Lens Wear Induces a Corneal Degeneration with Microdot Deposits in the Corneal Stroma 1887
Matthias Böhnke, MD, Barry R. Masters, PhD

The Utility of Culturing Corneal Ulcers in a Tertiary Referral Center versus a General Ophthalmology Clinic 1897
Richard C. Rodman, MD, Steven Spisak, BS, Alan Sugar, MD, Roger F. Meyer, MD, H. Kaz Soong, MD, David C. Musch, PhD

Ofloxacin Monotherapy for the Primary Treatment of Microbial Keratitis: A Double-masked, Randomized, Controlled Trial with Conventional Dual Therapy 1902
The Ofloxacin Study Group

A Multicenter Comparison Study of the Humphrey Field Analyzer I and the Humphrey Field Analyzer II 1910
Chris A. Johnson, PhD, George A. Cioffi, MD, Stephen M. Drance, OC, MD, Douglas Gaasterland, MD, Richard P. Mills, MD, Frank Ashburn, MD, Peter Hnik, MD, Rosita E. Van Coevorden, MD

Automated Perimetry in Detecting Threats to Fixation 1918
Lili Zhang, MD, Stephen M. Drance, MD, Gordon R. Douglas, MD

Chronic Use of Apraclonidine Decreases Its Moderation of Post-laser Intraocular Pressure Spikes 1921
Hak S. Chung, MD, Dong H. Shin, MD, PhD, Catherine M. Birt, MD, FRCSC, Chaesik Kim, BSEE, Damho Lee, MD, Darrin S. Levin, BS, Roxana Hakimzadeh, MD, Mark S. Juzych, MD

The Associations of Optic Disc Hemorrhage with Retinal Nerve Fiber Layer Defect and Peripapillary Atrophy in Normal-tension Glaucoma 1926
Kazuhisa Sugiyama, MD, Goji Tomita, MD, PhD, Yoshiaki Kitazawa, MD, PhD, Eiji Onda, MD, Hisashi Shinohara, BS, Ki Ho Park, MD

Optic Disc Shape, Corneal Astigmatism, and Amblyopia 1934
Jost B. Jonas, MD, Florence Kling, MD, Anselm E. Gründler, MD

Hyperopia Correction by Noncontact Holmium:YAG Laser Thermal Keratoplasty: U.S. Phase IIA Clinical Study with 2-year Follow-up 1938
Douglas D. Koch, MD, Thomas Kohnen, MD, Peter J. McDonnell, MD, Richard Menefee, AAS, Michael Berry, PhD

For How Long Can Regression Continue after Photorefractive Keratectomy for Myopia? 1948
David Haviv, MD, Limor Hefetz, MD, David Krakowsky, MD, Simon Abrahami, MD, Uri Kibarski, MD, Pinhas Nemet, MD

Discussion: *Jonathan H. Talamo, MD* 1950

Photorefractive Keratectomy for Hyperopia: Six Months Results in 45 Eyes 1952
Sheraz M. Daya, MD, FACP, FACS, Faiz R. Tappouni, MD, FRCOphth, Nabil E. Habib, FRCOphth, FRCSEd

Excimer Laser Photorefractive Keratectomy for the Correction of Hyperopia Using an Erodible Mask and Axicon System 1959
David P. S. O'Brart, MD, FRCS, FRCOphth, Chris G. Stephenson, FRCS, FRCOphth, Katherine Oliver, MCOptom, BSc, John Marshall, PhD

American Academy of Ophthalmology, Inc., Financial Statements 1971
- *Report of Independent Certified Public Accountants*

Contents

Volume 104, Number 12, December 1997

Letters to the Editor 1981
Laser Photocoagulation for Central Serous Retinopathy
Complications of Hydroxyapatite Implants
Annular Peripheral Choroidal Detachment after Glaucoma Surgery

Guest Editorial: **Reappraising the Risks and Benefits of Aggressive Glaucoma Therapy** 1985
Harry A. Quigley, MD

Incidence and Progression of Cortical and Posterior Subcapsular Opacities: The Longitudinal Study of Cataract 1987
M. Cristina Leske, MD, MPH, Leo T. Chylack, Jr, MD, Qimei He, PhD, Suh-Yuh Wu, MA, Elinor Schoenfeld, PhD, Judith Friend, MA, John Wolfe, PhD, The LSC Group

Clinical Findings and Hemodynamic Changes Associated with Severe Occlusive Carotid Artery Disease 1994
Vital P. Costa, MD, Sergio Kuzniec, MD, Lazlo J. Molnar, MD, Giovanni G. Cerri, MD, Pedro Puech-Leão, MD, Celso A. Carvalho, MD

A Comparison of Retrobulbar versus Sub-Tenon's Corticosteroid Therapy for Cystoid Macular Edema Refractory to Topical Medications 2003
Allen B. Thach, MD, Pravin U. Dugel, MD, Richard J. Flindall, MD, Jack O. Sipperley, MD, Scott R. Sneed, MD

Outpatient Postoperative Fluid–Gas Exchange after Early Failed Vitrectomy Surgery for Macular Hole 2009
Robert N. Johnson, MD, H. Richard McDonald, MD, Howard Schatz, MD, Everett Ai, MD

A Multivariate Analysis of Anatomic Success of Recurrent Retinal Detachment Treated with Pneumatic Retinopexy 2014
Tarun Sharma, MD, Sengamedu Srinivasa Badrinath, FRCS(C), Bickol N. Mukesh, MSc, MPhil, Lingam Gopal, MD, Mahesh P. Shanmugam, MD, Pramod Bhende, MD, Muna Bhende, MD, Nitin S. Shetty, MD, Rajat Agrawal, MD

Quantitative Analysis of Macular Holes with Scanning Laser Tomography 2018
Eva Beausencourt, MD, Ann E. Elsner, PhD, M. Elizabeth Hartnett, MD, Clement L. Trempe, MD

The Treatment of Macular Disease Using a Micropulsed and Continuous Wave 810-nm Diode Laser 2030
Thomas R. Friberg, MD, Ekatarini C. Karatza, MD

Visual Acuity Outcomes among Patients with Appositional Suprachoroidal Hemorrhage 2039
Ingrid U. Scott, MD, MPH, Harry W. Flynn, Jr., MD, Joyce Schiffman, MS, William E. Smiddy, MD, Fiona Ehlies, BSc

Vitreous Surgery for Chronic Macular Holes 2047
Daniel B. Roth, MD, William E. Smiddy, MD, William Feuer, MS

Laser Photocoagulation for Retinal Detachments and Retinal Tears in Cytomegalovirus Retinitis 2053
Janet L. Davis, MD, Jan Hummer, MD, William J. Feuer, MS
Discussion: *Douglas A. Jabs, MD* 2060

Laser Photocoagulation Repair of Macula-sparing Cytomegalovirus-related Retinal Detachment 2062
Tamara R. Vrabec, MD

Amniotic Membrane Transplantation for Ocular Surface Reconstruction in Patients with Chemical and Thermal Burns 2068
Jun Shimazaki, MD, Hao-Yung Yang, MD, Kazuo Tsubota, MD

Analysis of Videokeratography after Penetrating Keratoplasty: Topographic Characteristics and Effects of Removing Running Sutures 2077
Jun Shimazaki, MD, Kazuo Tsubota, MD

Mitomycin C Treatment for Conjunctival–Corneal Intraepithelial Neoplasia: A Multicenter Experience 2085
Joseph Frucht-Pery, MD, Joel Sugar, MD, Jules Baum, MD, John E. Sutphin, MD, Jacob Pe'er, MD, Hana Savir, MD, Edward J. Holland, MD, David M. Meisler, MD, Jill A. Foster, MD, Robert Folberg, MD, Yaacob Rozenman, MD
Discussion: *Peter R. Laibson, MD* 2093

Orbital Involvement in Allergic Fungal Sinusitis 2094
Stephen R. Klapper, MD, Andrew G. Lee, MD, James R. Patrinely, MD, FACS, Michael Stewart, MD, Eugene L. Alford, MD

Combined Chemoreduction and Adjuvant Treatment for Intraocular Retinoblastoma 2101
Carol L. Shields, MD, Jerry A. Shields, MD, Michael Needle, MD, Patrick De Potter, MD, Sundeep Kheterpal, MD, Andre Hamada, MD, Anna T. Meadows, MD

Ocular-hypertensive Response to Topical Steroids in Children 2112
Alvin K. H. Kwok, FRCS, Dennis S. C. Lam, FRCS, FRCOphth, Joan S. K. Ng, FRCS, Dorothy S. P. Fan, MBChB, Sek-Jin Chew, MD, PhD, Mark O. M. Tso, MD

Bleb-related Ocular Infection in Children after Trabeculectomy with Mitomycin C 2117
Samra Waheed, MD, David C. Ritterband, MD, David S. Greenfield, MD, Jeffrey M. Liebmann, MD, Paul A. Sidoti, MD, Robert Ritch, MD

Clinical Experience of Trabeculotomy for the Surgical Treatment of Aniridic Glaucoma 2121
Misato Adachi, MD, Christopher J. Dickens, MD, John Hetherington, Jr., MD, H. Dunbar Hoskins, Jr., MD, Andrew G. Iwach, MD, Patricia C. Wong, MD, Ngoc Nguyen, MD, Albert S. Ma, BS

The Effect of Adjunctive Mitomycin C in Molteno Implant Surgery 2126
Damho Lee, MD, Dong H. Shin, MD, PhD, Catherine M. Birt, MD, Chaesik Kim, BSEE, Talya H. Kupin, MD, Mildred M. G. Olivier, MD, Anup K. Khatana, MD, Stephen Y. Reed, MD

Pattern Electroretinogram and Spatial Contrast Sensitivity in Primary Congenital Glaucoma 2136
Marie-Sylvie Roy, PhD, Magda Barsoum-Homsy, MD, Nelly Hanna, MD, MSc, Line Chevrette, MD, Gary L. Trick, PhD

Full-time Atropine, Intermittent Atropine, and Optical Penalization and Binocular Outcome in Treatment of Strabismic Amblyopia 2143
Kurt Simons, PhD, Leah Stein, OC(C), COMT, Emin Cumhur Sener, MD, Susan Vitale, MHS, David L. Guyton, MD

Penalization versus Part-time Occlusion and Binocular Outcome in Treatment of Strabismic Amblyopia 2156
Kurt Simons, PhD, Katherina C. Gotzler, MD, Susan Vitale, MHS

Automated Pupil Perimetry in Amblyopia: Generalized Depression in the Involved Eye 2161
Sean P. Donahue, MD, PhD, Paula Moore, Randy H. Kardon, MD, PhD

Posterior Capsulectomy in Pediatric Cataract Surgery: The Necessity of a Choice 2168
David BenEzra, MD, PhD, Evelyne Cohen, COrth

Trichotillomania 2175
Louise A. Mawn, MD, David R. Jordan, MD

Scientific Reviewers List 2179

Cumulative Contents of Volume 104 2187

Author Index to Volume 104 2221

Subject Index to Volume 104 2228